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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	. ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,491	09/23/2003	Mark Gary Weinberg	CL1916 US NA	2271
23906	7590 08/22/2006		EXAM	INER
E I DU PO	NT DE NEMOURS A	FEELY, MICHAEL J		
	TENT RECORDS CEN	ΓER	ART UNIT	DARED MUMPER
	BARLEY MILL PLAZA 25/1128			PAPER NUMBER
4417 LANCASTER PIKE			1712	
WILMINGTON, DE 19805			DATE MAILED: 08/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Community	10/668,491	WEINBERG ET AL.			
Office Action Summary	Examiner	Art Unit			
The ASAU INO DATE AND	Michael J. Feely	1712			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. 8 133).			
Status					
1) Responsive to communication(s) filed on 14 Ju	<u>ıne 2006</u> .	·			
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowar	•				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
 4) ☐ Claim(s) 1-49 is/are pending in the application. 4a) Of the above claim(s) 1-28 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 29-49 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	n from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 23 September 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	are: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. Section is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Election/Restrictions

1. The election of species requirement has been withdrawn. The restriction requirement stands and is final.

Pending Claims

2. Claims 1-49 are pending, of which claims 1-28 are withdrawn from consideration

Previous Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. The rejection of claims 29-33, 36-38, and 45-49 under 35 U.S.C. 103(a) as being unpatentable over Shin et al (US Pat. No. 6,458,304) in view of Haszeldine et al. (US Pat. No. 3,917,725) has been overcome with a statement of common ownership (see response filed June 14, 2006).

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 29-31 and 33-49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The instant claims feature a *mixture* of a first and second polymer wherein: the concentration range of the first polymer is 0 to 95 wt%, and the concentration range of the

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second polymer is 5 to 100 wt%. It is unclear how this can be considered a *mixture* in the embodiment that features 0 wt% of the first polymer and 100 wt% of the second polymer. Both materials must be present to be considered a *mixture* of first and second polymers.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claims 30-32, 34, 36, 45, and 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Harpell et al. (US Pat. No. 4,584,347).

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Regarding claims 30-32, 34, 36, 45, and 48, Harpell et al. disclose: (30) a spin mixture (Abstract; column 2, line 65 through column 3, line 2) comprising a spin agent (column 2, line 65 through column 3, line 2; column 6, lines 43-48) and a polymer mixture (column 2, line 65 through column 3, line 2), wherein the polymer mixture comprises 0 to 95% by weight of a first polymer (column 3, lines 41-54; claim 1) selected from the group consisting of polyolefins, copolymers thereof with ethylenically unsaturated monomers, polyesters, and mixtures thereof (column 2, line 65 through column 3, line 2); and 5 to 100% by weight of a second polymer (column 3, lines 41-54; claim 1) selected from the group consisting of polyolefins, copolymers thereof with ethylenically unsaturated monomers, polyesters, and mixtures thereof (column 2, line 65 through column 3, line 2), and the second polymer comprises 1 to 25 mol% of pendant functional groups (column 4, lines 29-39); (31) wherein the spin agent is selected from the group

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95 percent by weight of the first polymer and 30 to 5 percent of the second polymer (column 3, lines 41-54; claim 1); (34) wherein the first polymer is polyethylene (column 2, line 65 through column 3, line 2); (36) wherein the second polymer is polyethylene (column 4, lines 29-39); (45) wherein the second polymer comprises 5 to 15 mol% of pendant functional groups (column 4, lines 29-39); and (48) formed as a non-woven fabric (column 7, lines 59-68).

hydrofluorocarbons (column 6, lines 43-48); (32) wherein the polymer mixture comprises 70 to

consisting of aliphatic hydrocarbons, fluorocarbons, halogenated hydrocarbons, and

9. Claims 30, 32, 33, 36, 45, and 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Tabor et al. (US Pat. No. 5,372,885).

Regarding claims 30, 32, 33, 36, 45, and 48, Tabor et al. disclose: (30) a spin mixture (Abstract; column 6, lines 56-68) comprising a spin agent (column 6, lines 56-68) and a polymer mixture (Abstract; column 6, lines 56-68), wherein the polymer mixture comprises 0 to 95% by weight of a first polymer (Abstract; column 6, lines 56-68) selected from the group consisting of polyolefins, copolymers thereof with ethylenically unsaturated monomers, polyesters, and mixtures thereof (Abstract; column 6, lines 56-68); and 5 to 100% by weight of a second polymer (Abstract; column 6, lines 56-68) selected from the group consisting of polyolefins, copolymers thereof with ethylenically unsaturated monomers, polyesters, and mixtures thereof (Abstract; column 6, lines 56-68), and the second polymer comprises 1 to 25 mol% of pendant functional groups (column 6, lines 32-45); (32) wherein the polymer mixture comprises 70 to 95 percent by weight of the first polymer and 30 to 5 percent of the second polymer (Abstract; column 6, lines 56-68); (33) wherein the first polymer is polyethylene terephthalate (Abstract; column 6, lines 56-68); (36) wherein the second polymer is polyethylene (Abstract; column 6, lines 56-68); (45) wherein the second polymer comprises 5 to 15 mol% of pendant functional groups (column 6, lines 32-45); and (48) formed as a non-woven fabric (column 8, lines 42-53).

10. Claims 30, 32, 34, 36, 45, 46, 48, and 49 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakagawa et al. (US Pat. No. 6,338,772).

Regarding claims 30, 32, 34, 36, 45, 46, 48, and 49, Nakagawa et al. disclose: (30) a spin mixture (Abstract; column 7, lines 14-25) comprising a spin agent (column 7, lines 14-25) and a polymer mixture (Abstract), wherein the polymer mixture comprises 0 to 95% by weight of a first polymer (column 5, lines 13-18) selected from the group consisting of polyolefins,

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copolymers thereof with ethylenically unsaturated monomers, polyesters, and mixtures thereof (Abstract); and 5 to 100% by weight of a second polymer (column 5, lines 13-18) selected from the group consisting of polyolefins, copolymers thereof with ethylenically unsaturated monomers, polyesters, and mixtures thereof (Abstract), and the second polymer comprises 1 to 25 mol% of pendant functional groups (column 4, lines 21-30); (32) wherein the polymer mixture comprises 70 to 95 percent by weight of the first polymer and 30 to 5 percent of the second polymer (column 5, lines 13-18); (34) wherein the first polymer is polyethylene (Abstract); (36) wherein the second polymer is polyethylene (Abstract); (45) wherein the second polymer comprises 5 to 15 mol% of pendant functional groups (column 4, lines 21-30); (46) formed as a plexi-filamentary yarn (column 7, lines 14-25); and (48 & 49) formed as a non-woven fabric (column 7, line 52 through column 8, line 34).

Allowable Subject Matter

- 11. Claim 29 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 12. Claims 35, 37-44, and 47 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Communication

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Feely whose telephone number is 571-272-1086. The

examiner can normally be reached on M-F 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael J. Feely Primary Examiner

Millyto

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MICHAEL FEELY PRIMARY EXAMINER

August 19, 2006